## WHAT IS CLAIMED IS:

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A method for managing a document collection in a computer system, said method comprising the steps of:

importing a document having a first format into the computer system;

storing the document in a memory location; automatically extracting attribute data from the document; and

- generating a data structure for the document, wherein said data structure contains the attribute data in a second format independent of said first format.
- The method of claim 1, wherein said step of importing a document into the computer system comprises the steps of:

optically scanning a paper-based document; and converting the optically scanned document into an electronic document.

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- 3. The method of claim 2, wherein the first format is an image format.
- 4. The method of claim 2, wherein the first format is a text format.
  - 5. The method of claim 1, wherein said step of importing a document into the computer system comprises the step of:
- importing an electronic document.
  - 6. The method of claim 5, wherein the first format is a text format.
- 7. The method of claim 6, wherein the document is a word processing document.

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- 8. The method of claim 6, wherein the document is an e-mail message.
- 9. The method of claim 5, wherein the first format is 5 an image format.
  - 10. The method of claim 5, wherein the first format is an HTML format.
- 10 11. The method of claim 1, wherein the second format comprises at least one data field.
  - 12. The method of claim 11, wherein the at least one data field contains a file name.
  - 13. The method of claim 11, wherein the at least one data field contains the memory location.
- 14. The method of claim 11, wherein the data field 20 contains a bit map.
  - 15. The method of claim 11, wherein the data field contains raw text.
- 25 16. The method of claim 11, wherein the data field contains a data attribute.
  - 17. The method of claim 16, wherein the data attribute is an author name.
- 18. The method of claim 16, wherein the data attribute is a publication date.
- 19. The method of claim 16, wherein the data attribute 35 is a word count.

- 20. The method of claim 16, wherein the data attribute is an annotation.
- 21. The method of claim 16, wherein the data attribute 5 is a key word.
  - 22. The method of claim 16, wherein the data attribute is an image type.
- 10 23. The method of claim 16, wherein the data attribute is an image dimension.
  - 24. The method of claim 16, wherein the data attribute is meta-text with positioning information.

25. The method of claim 1, further comprising the step of extracting indexing information from the attribute data in the data structure.

The method of claim 25 further comprising the steps of:

monitoring modifications to the document; and extracting updated indexing information.

- 25 27. The method of claim 25, wherein the attribute data is derived from a data field comprising raw text data.
  - 28. The method of claim 25 further comprising the step of:
- identifying the document from amongst other documents in the document collection utilizing the indexing information.
- 29. The method of claim 1 further comprising the step of:

linking the document to a first electronic folder if the attribute data matches a set of predefined criteria corresponding to the first electronic folder.

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The method of claim 29 further comprising the steps of:

electronically analyzing the attribute data stored in the data structure corresponding to the document; determining whether the document is to be automatically linked to the first electronic folder; and identifying the document on an inclusion list if it is determined that the document is not automatically linked to the first electronic folder.

15 31. The method of claim 29 further comprising the steps of:

electronically analyzing the attribute data stored in the data structure corresponding to the document; determining whether the document is to be automatically excluded from being linked to the first electronic folder; and

identifying the document on an exclusion list if it is determined that the document is not to be automatically excluded from being linked to the first electronic folder.

32. The method of claim 29 further comprising the steps of:

monitoring document modifications; and
automatically linking the document to a second
electronic folder if a document modification causes the
attribute data to match a set of predefined criteria
corresponding to the second electronic folder.

35 33. The method of claim 29 further comprising the steps of:

monitoring document modifications; and automatically deleting the link between the document and the first electronic folder if a document modification causes the attribute information to no longer match the set of predefined criteria corresponding to the first electronic folder.

34. The method of claim 29, wherein the attribute data is a document title.

35. The method of claim 29, wherein the attribute data is a document author

36. The method of claim 29, wherein the attribute data is a phrase associated with the document.

37. The method of claim 29, wherein the attribute data is a key word.

20 38. The method of claim 29, wherein the attribute data is a common concept.

39. The method of claim 29 further comprising the step of:

automatically manipulating the document based on a predefined behavior associated with the first electronic folder.

The method of claim 39, wherein the predefined behavior is a user-defined behavior.

The method of claim 39, wherein the predefined behavior involves e-mailing the document to a preprogrammed e-mail address.

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The method of claim 39, wherein the predefined behavior involves providing controlled access to the document.

5 43. The method of claim 1 further comprising the steps

linking the document to a folder, wherein the folder has associated with it a predefined behavior; and automatically manipulating the document in accordance with the predefined behavior.

43. The method of claim 43, wherein the predefined behavior is a user-defined behavior.

The method of claim 43, wherein the predefined behavior involves e-mailing the document to a preprogrammed e-mail address.

45. The method of claim 43, wherein the predefined behavior involves providing controlled access to the document.

The method of claim 1 further comprising the step of:

25 maintaining a second data structure that includes data defining a document hierarchy for the document collection.

The method of claim 47 further comprising the step of:

updating the second data structure to include data that defines a link between the data structure of the imported document and a document hierarchy folder or category.

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The method of claim 47, wherein the second data structure includes data linking all documents in the document collection to at least one folder or category.

50. of:

The method of claim 47 further comprising the step

maintaining a third data structure that includes data defining a second document hierarchy for the document collection, or a portion thereof, wherein the third data structure is maintained at a local terminal connected to the computer system.

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A computer-readable storage medium having stored therein a program which executes the steps of:

importing a document into a computer-based system; storing the document in memory;

automatically extracting attribute data from the document; and

generating a data structure corresponding to the
document comprising the extracted attribute data in a
standardized format regardless of document type or document
format.

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52. The computer-readable storage medium in accordance with claim 51, wherein said program further comprises the executable steps of:

predefining category criteria for a first
electronic folder; and

linking the document to the first electronic folder if the attribute data in the data structure corresponding to the document matches the category criteria.

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The computer-readable storage medium in accordance with claim 52, wherein said program further comprises the executable steps of:

electronically analyzing the attribute data stored in the data structure corresponding to the document;

comparing the attribute data to the predefined category criteria for the first electronic folder;

determining whether the document is to be automatically linked to the first electronic folder based on the comparison; and

identifying the document on an inclusion list if it is determined that the document is not to be automatically linked to the first electronic folder.

54. The computer readable storage medium in accordance with claim 52, wherein said program further comprises the executable steps of:

electronically\analyzing the attribute data stored in the data structure corresponding to the document;

comparing the attribute data to the predefined category criteria for the first electronic folder;

determining whether the document is to be automatically excluded from being linked to the first electronic folder; and

identifying the document on an exclusion list if it is determined that the document is not to be automatically excluded from being linked to the first electronic folder.

The computer-readable storage medium in accordance with claim 52, wherein said executable step of predefining category criteria for the first electronic folder comprises the steps of:

storing a seed document in the first electronic folder;

analyzing the seed document; and extracting the category criteria from the seed

35 document.

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The computer-readable storage medium in accordance with claim 58, wherein the predefined category criteria is based on user-defined criteria.

5 57. The computer-readable storage medium in accordance with claim 58, wherein said program further comprises the executable steps of:

monitoring document modifications; and automatically linking the document to a second electronic folder if the attribute data now matches predefined category criteria associated with the second electronic folder.

58. The computer-readable storage medium in accordance with claim 52, wherein said program further comprises the executable steps of:

monitoring document modification; and automatically deleting the link between the document and the first electronic folder if the attribute data no longer matches the predefined criteria associated with the first electronic folder.

- 59. The computer readable storage medium in accordance with claim 52, wherein the attribute data is a document title.
- The computer-readable storage medium in accordance with claim 52, wherein the attribute data is a document author.
- 61. The computer-readable storage medium in accordance with claim 52, wherein the attribute data is a phrase associated with the document.

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The computer-readable storage medium in accordance with claim 52, wherein the attribute data is a common concept.

5 63. The computer-readable storage medium in accordance with claim 52, wherein the attribute data is a key word.

of. The computer-readable storage medium in accordance with claim 51, wherein said program further comprises the executable steps of:

linking the document with an electronic folder; and

manipulating the document automatically based on a predefined behavior associated with the electronic folder.

The computer-readable storage medium in accordance with claim 64, wherein the predefined behavior is a user-defined behavior.

The computer-readable storage medium in accordance with claim 64, wherein the predefined behavior involves emailing the document to a preprogrammed e-mail address.

The computer-readable storage medium in accordance with claim 64, wherein the predefined behavior involves providing controlled access to the document.

The computer-readable storage medium in accordance with claim 51, wherein said step of importing a document into the computer-based system comprises the executable steps of:

generating program instructions thus causing an optical scanner, connected to the computer system, to optically scan the document, wherein the document is a paper-based document; and

converting the optically scanned document into an electronic document.

The computer-readable storage medium in accordance with claim 6.8, wherein the electronic document is an image file.

The computer-readable storage medium in accordance with claim 58, wherein the electronic document is a text file.

The computer-readable storage medium in accordance with claim 5%, wherein said step of importing a document into the computer system comprises the executable step of:

importing an electronic document.

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The computer-readable storage medium in accordance with claim 12, wherein the electronic document is a word processing document.

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The computer-readable storage medium in accordance method of claim 71, wherein the electronic document is a document containing an image.

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The computer-readable storage medium in accordance method of claim JV, wherein the electronic document is an email message.

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75. The computer-readable storage medium in accordance method of claim  $\mathcal{H}$ , wherein the electronic document is an HTML document.

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The computer-readable storage medium in accordance with claim 51, wherein said program further comprises the executable step of:

extracting indexing information from the attribute data in the data structure.

The computer-readable storage medium in accordance with claim 76, wherein said program further comprises the executable steps of:

monitoring modifications to the document; and extracting updated indexing information.

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The computer-readable storage medium in accordance with claim 76, wherein the attribute data is derived from a data field in the data structure comprising raw text data.

The computer-readable storage medium in accordance with claim 76, wherein said program further comprises the executable step of:

identifying the document from amongst other documents stored in the computer system utilizing the indexing information.

20 78 80. The computer-readable storage medium in accordance with claim 51, wherein said program further comprises the executable step of:

maintaining a second data structure that includes

25 data defining a document hierarchy for the document

collection.

The computer-readable storage medium in accordance with claim 80, wherein said program further comprises the executable step of:

updating the second data structure to include data that defines a link between the data structure of the imported document and a document hierarchy folder or category.

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The computer-readable storage medium in accordance with claim 80, wherein the second data structure includes data linking all documents in the document collection to at least one folder or category.

The computer-readable storage medium in accordance with claim 80, wherein said program further comprises the executable step of:

maintaining a third data structure that includes

10 data defining a second document hierarchy for the document
collection, or a portion thereof, wherein the third data
structure is maintained at a local terminal connected to the
computer system.